REMARK

I would like to point out to the Examiner that Example 17 lists multiple fillers that can be added to the Component B to produce polyurethane foam. I have added the word "non-reactive" to the type of filler that can be used. In claim 1 and 16 "selective heating and reacting" has been removed from the claims. In claim 2 water and Freon has been removed. In Claim 7 has been canceled, "derivatives" and fillers have been removed. Claim 8 has been modified by removing "comprising" and replacing it with consisting and making it an independent claim. Claim 10 has been modified into a independent claim. In claim 18 the two ending have been removed.

In response to the Examiner rejection of the Claims under 35 U.S.C. 103 (b) and (a) I would like to point out that amino compounds such as urea and urea condensates are not utilized to produce polyurethane containing biuret group. Neither Blount (US 4,383,078) or Case uses any urea or urea condensate in their Patent. The polyurethane containing biuret group are produced by cross-linking polyiisocyanates with a diamine or by reacting hexamethylene disocyanate with 3 moles of water as illustrated on page 18 and 122 of:

Development In Polyurethanes-1

J.M. Burst

Applied science Publishers LTD

London

Ripple Road, Barking, Essex, England

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On page 18 of Development In Polyurethane-1the reaction to produce a urea polyurethane illustrates that an amine is reacted with an isocyanate to produce a urea-isocyanate compound then the urea-isocyanate product is treated with phosgene to produce two molecules of isocyanate as illustrated below:

$R\text{-}NH_2 + R'NCO \longrightarrow R\text{-}NH\text{-}CO\text{-}NH\text{-}R'$

$R\text{-}NH\text{-}CO\text{-}NH\text{-}R' + COCl_2 \longrightarrow R\text{-}NCO + R'NCO + HCl$

Biuret-polyurethane polymer is produced by cross-linking a diamine with polyisocyanate or by reacting hexamethylene diisocyanate with water as illustrated on page 11 of:

60 Years of Polyurethanes

Jiri E. Kresta, Ph. D.

Eleanore W. Eldred

Technomic Publishing Co, Inc.

851 New Holland Ave., Box 3535

Lancaster, PA 17604 USA

Biuret polyurethane production:

$$3\ OCN\text{-}(CH_2)_6\text{-}NCO + H_2O \dashrightarrow \begin{array}{l} NH\text{-}(CH_2)_6\text{-}NCO \\ | \\ C{=}O \\ | \\ N\text{-}(CH_2)_6\text{-}NCO \\ | \\ C{=}O \\ | \\ NH\text{-}(CH_2)_6\text{-}NCO \end{array} + CO_2$$

On Page 3 of "60 Years of Polyurethane" illustrates the production of urea polyisocyanates using a diamine reacted with diisocyanate as follows:

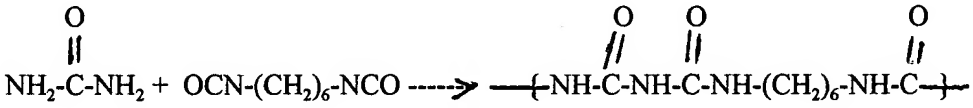
$$H_2N\text{-}(CH_2)_6\text{-}NH_2 + OCN\text{-}(CH_2)_6\text{-}NCO \dashrightarrow \left[HN\text{-}(CH_2)_6\text{-}NH\text{-}\overset{O}{\overset{\|}{C}}\text{-}NH\text{-}(CH_2)_6\text{-}NH\text{-}\overset{O}{\overset{\|}{C}}\right]$$

In response to the Examiner's rejection of the claims over Blount (US 4,383,078) I have pointed out that amino compounds such as urea or biuret are not utilized in the production of the the polyisocyanates which contain biuret or urea groups but are produced by reacting amine compounds with isocyanates. These polyurethane containing biuret or urea groupslisted in Blount's and Case's patents are

polyisocyanates and not urea or biuret reacted with polyisocyanates. The urea and urea condensate are first mixed to form the bio based compound to form Component B before they are reacted with a polyisocyanate.

In Case's Abstract he states that his urea-modified polyurethane is produced by the reaction of a polyisocyanate with a polyol in the presence of a diamine. In his preferred methods he produces a prepolymer of polyisocyanate which is then cured by a diamine. In his claims he utilizes castor oil and a diamine and the reaction of the polyisocyanate and the diamine produces the urea- modified polyurethane. In Case's list of polyisocyanates he does not list a polyisocyanate containing urea or biuret groups. Case does not utilized urea, biuret or other urea condensates in his process.

When urea or biuret is reacted with a polyisocyanate a polyurea is produced and not a biuret urea as illustrated below:



I have corrected the errors pointed out by the Examiner and pointed out that the urea-polyisocyanate and biuret polyisocyanate are not produced by utilizing urea, biuret or a urea condensate. Case does not utilized any urea, biuret or urea condensate in his production of urea-modified polyisocyanates products.

On 04/05/04 I request that the continuing data regarding 09/149,847 be deleted from the continuing data.

I request that the claims be approved and that a Patent be issued.

Date: 03-27-06

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